

# Respiratory Virus Surveillance Report<sup>1</sup>



New Jersey Department of Health Communicable Disease Service

Week ending January 17, 2015 (MMWR week 2)

# **SYNOPSIS**

	Influenza Activity Lev	$el^2$
State Activ	ity Week ending 1/17:	
	HIGH	SUSSEN Pass Description
Current w	eek Last year: <mark>HIGH</mark>	Varien Moris (see
Re	egional <sup>3</sup> Data	Hunter for Mileser Mon
Northwest	HIGH	Moroet
Northeast	HIGH	Burlington
Central West	HIGH	Salom Attantio
Central East	HIGH	Cumberland Spe Mos
South	HIGH	•

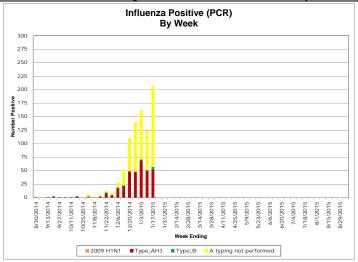
		ILI Activit	$y^4$	
	P	ercent ILI/Absente	eism	Baselines
	Current week (range by county)	Last week Current year	Current week Last year	Non-season <sup>5</sup> Season <sup>6</sup> (3 low, 3 high)
Long Term Care Facilities	1.35 (0.00, 2.59)	1.40	0.44	0.59 (0.59, 0.78)
Schools (absenteeism)	5.09 (3.42, 20.23)	3.99	6.81	3.63 (4.56, 4.95)
Emergency Departments	5.44 (0.00, 10.92)	5.81	4.92	2.44 (3.17, 4.16)

Viral Ac	ctivity <sup>7</sup>		
	Current Week	Past 3 Weeks	Cumulative Total
Influenza H1N1 (2009)	0	0	1
Influenza H3N2	52	171	325
Influenza B	5	8	16
Respiratory Syncytial Virus (RSV)	167	491	1024
Rapid Influenza Tests	638	2000	2614

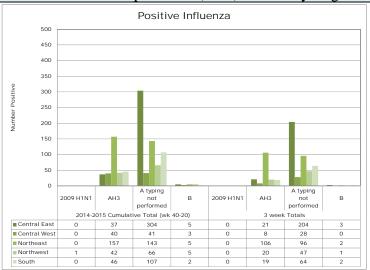
I	LINet P	Providers	
Current W	eek	Previous W	<sup>7</sup> eek
#of reporters	%ILI	#of reporters	%ILI
18	3.33	24	3.68

# Virologic Surveillance<sup>7</sup>

# Influenza Positive Specimens (PCR) - Result by Week



# Influenza Positive Specimens (PCR)- Result by Region<sup>3</sup>

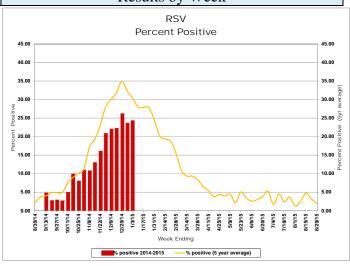


# Influenza Rapid Antigen Result by Week

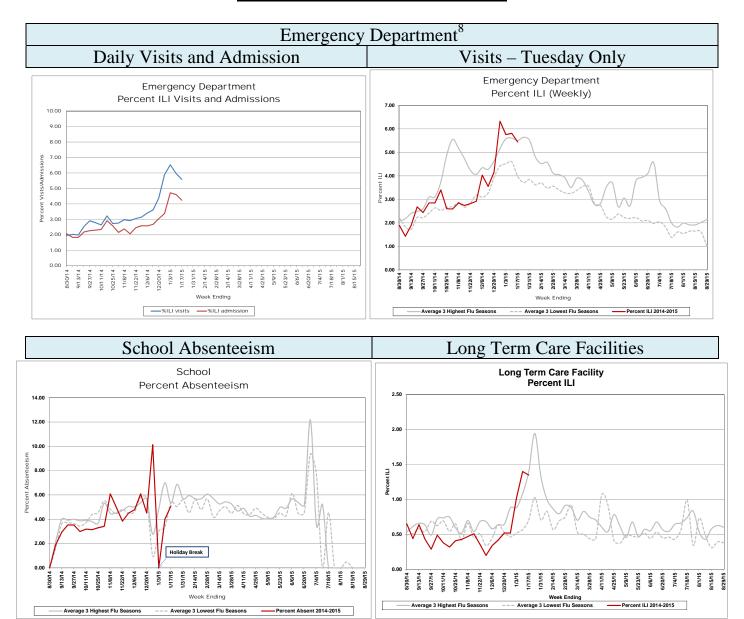
# Rapid Influenza Tests Total Tested and Percent Positive 50,000 40,000

Total Tests Performed Percent Positive

# Respiratory Syncytial Virus (RSV) Results by Week



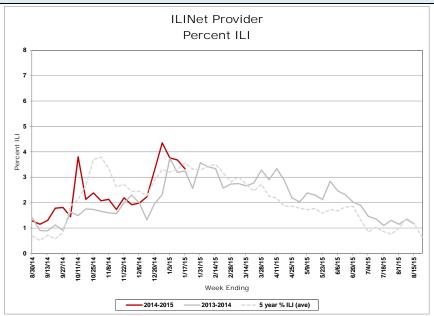
# **Influenza-like Illness Surveillance**



# Respiratory Outbreaks in Long Term Care Facilities<sup>9</sup>

Cumulative outbreaks 2014-2015 season	54
No. outbreaks last 3 weeks	45
Regions with recent	NW(11), NE(10),
outbreaks	CW(6), CE(8),
	S(10)





For additional information regarding influenza surveillance please visit the following websites. <a href="http://nj.gov/health/flu/surveillance.shtml">http://nj.gov/health/flu/surveillance.shtml</a> <a href="http://www.cdc.gov/flu/">http://www.cdc.gov/flu/</a>

### Footnotes:

- 1. This report represents activity occurring in New Jersey related to influenza and RSV. In addition, reports of other circulating respiratory viruses or regarding illness severity (i.e., hospitalization) will be included when available.
- 2. Activity levels for the state and region are defined in Table 1 and 2 at the end of this document.
- 3. The following is a breakdown of counties contained within each public health region: Northwest: Morris, Passaic, Sussex, Warren; Northeast: Bergen, Essex, Hudson; Central west: Hunterdon, Mercer, Somerset; Central East: Middlesex, Monmouth, Ocean, Union; South: Atlantic, Burlington, Camden, Cape May, Salem, Cumberland, Gloucester
- 4. Influenza-like illness (ILI) is defined as fever (> 100°F [37.8°C], oral or equivalent) and cough and/or sore throat (in the absence of a known cause other than influenza). For long term care facilities, fever is defined as 2° above baseline temperature.
- 5. Non-season baseline is calculated by taking the average of statewide percentages of ILI for an 9 year (2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, and 2014) period during months when influenza is less likely to be circulating (May-August).
- 6. Three year seasonal averages are determined by calculating the average percent ILI/absenteeism for each influenza season (October to May). These averages are ranked and the three highest and lowest overall season averages were selected. The three highest and lowest numbers were then averaged to obtain a single high and single low value. The season which contribute to the high and low value vary by entity type and are as follows: LTCF (High: 08-09,09-10, 12-13; Low: 10-11,11-12,13-14), ED (High:08-09, 09-10,12-13; Low: 10-11, 11-12,13-14) and schools (High: 08-09, 10-11, 12-13; Low: 09-10, 11-12,13-14). A week by week average was also calculated using the average of the seasons listed above for each entity type.
- 7. Viral activity: Real-time polymerase chain reaction (PCR) results are obtained from electronic laboratory transmission submitted by acute care, commercial and public health laboratories to CDRSS. Rapid influenza test data and respiratory syncytial virus data are acquired from facilities reporting rapid influenza tests via the National Respiratory and Enteric Virus Surveillance System (NREVSS) or CDRSS ILI module. Counts for cumulative totals begin with week ending October 4, 2014. Three week count data includes current week and two prior weeks. Data presented for RSV and rapid influenza testing represent information for the week prior to the current report week.
- 8. Daily visits and admissions associated with ILI from emergency department data is collected via EpiCenter and Hippocrates. Prior to these systems, data on ILI visits were only recorded one day per week usually on Tuesday. This system is maintained as a large amount of historical data allows for better seasonal comparisons.
- 9. Only LTCF outbreaks reported to NJDOH that receive an outbreak number are recorded in this report.

	I	<u>Table 1</u> nfluenza Activity Level – Definitions for	State Ac	etivity
NJ Level	CSTE Level	, , , , , , , , , , , , , , , , , , ,	inition	•
		ILI Activity/Outbreaks		Lab Activity
	No Activity	ILI activity at or below baseline AND no detected outbreaks	AND	No lab confirmed cases
Low	Sporadic	Low ILI activity detected OR one lab confirmed outbreaks anywhere in the state	AND	Sporadic isolation of laboratory confirmed influenza
	Local	Increase in ILI activity OR two or more lab confirmed outbreaks in one public health region (Other regions not experiencing increased ILI activity)	AND	Recent (within 3 weeks) laboratory activity in the region with increased ILI
Moderate	Regional	Increase in ILI activity OR two or more lab confirmed outbreaks in at least 2 public health regions (Other regions not experiencing increased ILI activity)	AND	Recent (within 3 weeks) laboratory activity in the region with increased ILI
High	Widespread	Increase in ILI activity OR two or more lab confirmed outbreaks in > 2 public health regions	AND	Recent (within 3 weeks) laboratory activity in the region with increased ILI

	Table 2 Influenza Activity Level – Definitions		lic Health Regions
NJ Level	ILI Activity/Outbreaks	<u>inition</u>	Lab Activity
Low	Low ILI activity detected OR one lab confirmed outbreaks anywhere in the region	AND	Sporadic isolation of laboratory confirmed influenza anywhere in the region
Moderate	Increased ILI activity in less than half of the counties in the region OR two lab confirmed outbreaks in the public health region	AND	Recent (within 3 weeks) laboratory activity in same counties of the region with increased ILI
High	Increased ILI activity in more than half of the counties in the region OR three or more lab confirmed outbreaks in the region	AND	Recent (within 3 weeks) laboratory activity in more than half of the counties in the region with increased ILI

## Notes:

ILI activity: Systems used to detect increases in ILI activity include: ILINet (i.e., sentinel providers), school absenteeism data, ED ILI visits and admissions collected via Hippocrates and EpiCenter systems, LTCF ILI data, LTCF outbreak data, and information on influenza mortality (122 city, influenza associated death report).

Lab Activity: Virologic surveillance data from PHEL and commercial laboratories will be used as the primary data source for the above levels. However, rapid influenza test data will also be considered when determining the appropriate activity levels.

Communicable Disease Reporting and Surveillance System

# NJ ACTIVE INFLUENZA-LIKE ILLNESS SURVEILLANCE STATISTICS SURVEILLANCE DATE: 01/13/2015



01/20/2015 12:05 PM

		Long Term Car	e		Schools		Hospi	tal Emergency	Dept
COUNTY	# Enrolled	# Reports Rec'd	<b>□</b> %	# Enrolled	# Reports Rec'd	% Absent	# Enrolled	# Reports Rec'd	∏ %
January 13, 2015 MMWR WEEK 2									
ATLANTIC	7	1	0.67	71	27	6.33	4	4	2.46
BERGEN	5	2	0.14	128	24	4.11	5	5	3.92
BURLINGTON	8	0	0.00	122	61	4.41	4	4	6.67
CAMDEN	5	0	0.00	17	0	0.00	7	7	4.99
CAPE MAY	7	1	0.00	11	8	6.16	1	1	5.61
CUMBERLAND	4	2	2.59	24	11	7.76	3	3	5.21
ESSEX	13	0	0.00	27	1	6.90	8	7	6.44
GLOUCESTER	4	1	1.67	7	6	7.62	2	2	3.81
HUDSON	16	2	2.02	92	18	6.13	6	6	3.89
HUNTERDON	4	4	2.07	8	8	3.97	1	1	3.95
MERCER	8	2	0.90	32	19	4.00	5	4	6.82
MIDDLESEX	21	0	0.00	37	16	4.46	6	6	5.51
MONMOUTH	15	2	0.68	23	11	6.97	5	5	7.72
MORRIS	4	0	0.00	5	0	0.00	4	4	2.93
OCEAN	24	0	0.00	24	7	6.87	4	4	8.21
PASSAIC	14	5	2.07	73	19	3.42	3	3	10.92
SALEM	1	0	0.00	15	1	6.49	1	1	1.52
SOMERSET	7	2	0.74	92	14	4.00	1	1	6.37
SUSSEX	6	1	0.00	24	1	20.23	2	2	0.00
UNION	4	0	0.00	197	1	7.14	5	5	2.85
WARREN	4	2	0.00	27	6	4.53	2	2	2.22
NW Region	28	8	1.63	129	26	3.97	11	11	6.11
NE Region	34	4	0.93	247	43	5.27	19	18	4.96
CW Region	19	8	1.47	132	41	3.99	7	6	6.42
CE Region	64	2	0.68	281	35	5.63	20	20	6.10
South Region	36	5	1.70	267	114	5.55	22	22	4.63
State Total	181	27	1.35	1056	259	5.09	79	77	5.44

User Name: THOMAS, DEEPAM Page 1 of 1

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# NJ ACTIVE INFLUENZA-LIKE ILLNESS SURVEILLANCE STATISTICS SURVEILLANCE DATE: 01/13/2015



	RSV Tests		Flu Tests	
County	# Positive	Total Tests Performed	# Positive	Total Tests Performed
January 13, 2015 MMWR WEEK	2	' ' <del>-</del>		
ATLANTIC	1	19	40	177
BERGEN	3	7	97	442
BURLINGTON	0	0	0	0
CAMDEN	19	57	52	567
CAPE MAY	1	7	5	80
CUMBERLAND	7	32	0	0
ESSEX	15	105	84	599
GLOUCESTER	9	36	49	343
HUDSON	19	91	21	121
HUNTERDON	7	16	19	125
MERCER	2	12	52	294
MIDDLESEX	20	111	19	138
MONMOUTH	46	141	136	894
MORRIS	2	5	15	103
OCEAN	6	24	44	167
PASSAIC	0	0	0	0
SALEM	0	0	0	0
SOMERSET	0	0	0	0
SUSSEX	0	0	1	2
UNION	10	32	4	24
WARREN	0	0	0	0
NW Region	2	5	16	105
NE Region	37	203	202	1162
CW Region	9	28	71	419
CE Region	82	308	203	1223
South Region	37	151	146	1167
State Total	167	695	638	4076